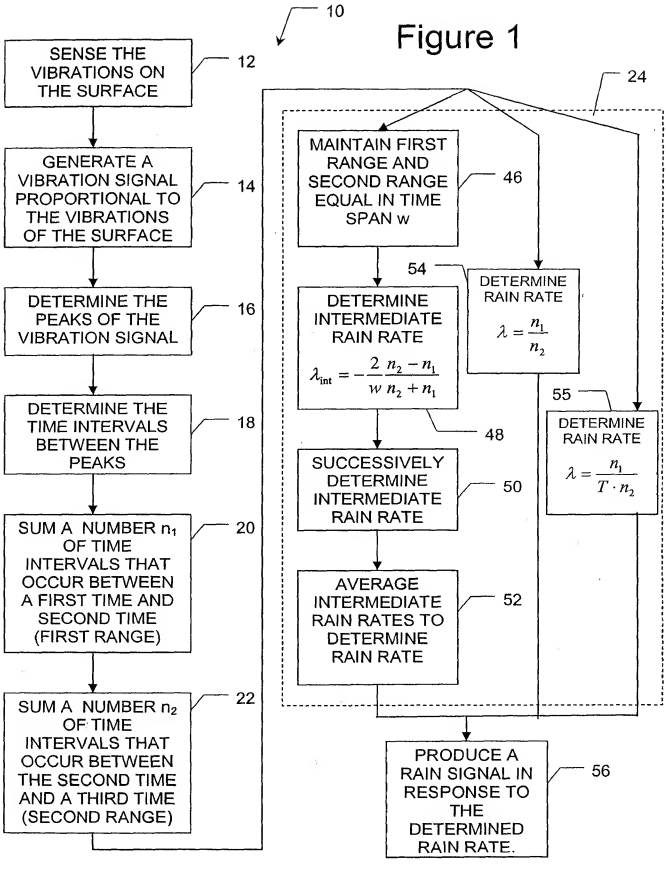
10
Figure 1
SENSE THE VIBRATIONS ON THE SURFACE
12
GENERATE A VIBRATION SIGNAL PROPORTIONAL TO THE VIBRATIONS OF THE SURFACE
14
DETERMINE THE PEAKS OF THE VIBRATION SIGNAL
16
DETERMINE THE TIME INTERVALS BETWEEN THE PEAKS
18
SUM A NUMBER n_1 OF TIME INTERVALS THAT OCCUR BETWEEN A FIRST TIME AND SECOND TIME (FIRST RANGE)
20
SUM A NUMBER n_2 OF TIME INTERVALS THAT OCCUR BETWEEN THE SECOND TIME AND A THIRD TIME (SECOND RANGE)
22
24
MAINTAIN FIRST RANGE AND SECOND RANGE EQUAL IN TIME SPAN w
46
54
DETERMINE RAIN RATE
$\lambda = \frac{n_1}{n_2}$
DETERMINE INTERMEDIATE RAIN RATE
$\lambda_{int} = -\frac{2}{w}\frac{n_2 - n_1}{n_2 + n_1}$
48
55
DETERMINE RAIN RATE
$\lambda = \frac{n_1}{T \cdot n_2}$
SUCCESSIVELY DETERMINE INTERMEDIATE RAIN RATE
50
AVERAGE INTERMEDIATE RAIN RATES TO DETERMINE RAIN RATE
52
PRODUCE A RAIN SIGNAL IN RESPONSE TO THE DETERMINED RAIN RATE.
56